

ABSTRACT

Disclosed herein is an apparatus and method for retrieving face images using combined component descriptors. The apparatus of the present invention includes an
5 image division unit for dividing an input image into facial components, a first Linear Discriminant Analysis transformation unit for LDA transforming the divided facial components into component descriptors of the facial components, a vector synthesis unit for synthesizing the transformed component descriptors into a single vector, a
10 second Generalized Discriminant Analysis transformation unit for GDA transforming the single vector into a single face descriptor, and a similarity determination unit. The similarity determination unit determines similarities between an input query face image and face images stored in a face image database by comparing a face descriptor of the input query face image with face descriptors of the face images stored in the face image database.

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